



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

NOV 17 2000

400 Seventh St., S.W.
Washington, D.C. 20590

DOT-E 12526

EXPIRATION DATE: October 31, 2002

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Aeronex, Incorporated
San Diego, CA
2. PURPOSE AND LIMITATIONS:
 - a. This exemption authorizes the manufacture, mark, sale and use of a gas purification apparatus containing a non-DOT specification stainless steel pressure vessel for the transportation in commerce of the materials authorized by this exemption. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
 - b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce. The safety analyses did not consider the hazards and risks associated with use as a component of another device, or other uses not associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 173.212 and 173.213 in that a non-DOT specification pressure vessel is not authorized, except as specified herein; and § 176.83 in that the "away from" segregation requirement is not required for the storage of Division 4.1 and Division 4.2 materials in the same cargo hold.

NOV 17 2000

Continuation of DOT-E 12526

Page 2

5. BASIS: This exemption is based on the application of Aeronex dated July 11, 2000 and additional information dated September 12, September 27, and October 3, 2000, submitted in accordance with § 107.105 and the public proceeding thereon.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Material Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Self-heating solid, inorganic, n.o.s. (Nickel mixture)	4.2	UN3190	II
Manganese resinate	4.1	UN1330	III

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed is a non-DOT specification pressure vessel manufactured from 316L stainless steel that is designed, manufactured, and tested in accordance with Section VIII, Division 1 of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code but not ASME Code "U" stamped. The pressure vessel must be as shown on Aeronex drawing 20-02337-XXX on file with the Office of Hazardous Materials Exemptions and Approvals. The pressure vessel has a maximum allowable working pressure of 200 psig and a minimum design burst pressure of 700 psig. The pressure vessel is not equipped with a pressure relief device.

b. TESTING - Prior to offering a new or refilled pressure vessel for transportation, each pressure vessel must be inspected to verify leak-tightness. A pressure vessel that has a leak is not authorized for transportation.

c. OPERATIONAL CONTROLS -

(1) Each pressure vessel must be shipped at atmospheric pressure and padded with no more than 5 psig of dry nitrogen.

NOV 17 2000

Continuation of DOT-E 12526

Page 3

(2) The pressure vessel must be shipped inside a National Electrical Manufacturer's Association NEMA 4 or NEMA 12 enclosure as shown in Aeronex drawing number 20-02337-XXX on file with the OHMEA.

(3) Each pressure vessel may not contain more than 4.5 kilograms of self-heating solid, inorganic, n.o.s. and no more than 8.5 kilograms of manganese resinate. Pressure vessels containing the self-heating solid, inorganic, n.o.s. and the manganese resinate may not be shipped in the same NEMA enclosure.

(4) Emergency response information provided with the shipment and available via an emergency response telephone number must indicate that the pressure vessels are not fitted with pressure relief devices and provide appropriate guidance for exposure to fire.

8. SPECIAL PROVISIONS:

a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the packaging authorized by this exemption for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this exemption.

b. A person who is not a holder of this exemption, but receives a package covered by this exemption, may reoffer it for transportation provided no modifications or changes are made to the package and it is offered for transportation in conformance with this exemption and the HMR.

c. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

d. Each packaging manufactured under the authority of this exemption must be either (1) marked with the name of the manufacturer and location (city and state) of the facility at which it is manufactured or (2) marked with a registration symbol designated by the Office of Hazardous Materials Exemptions and Approvals for a specific manufacturing facility.

e. A current copy of this exemption must be maintained at each facility where the package is manufactured under this exemption. It must be made available to a DOT representative upon request.

NOV 17 2000

Continuation of DOT-E 12526

Page 4

f. MARKING - Each pressure vessel and each NEMA enclosure must be plainly and durably marked "DOT-E 12526".

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, and cargo aircraft only.
10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel or aircraft used to transport packages covered by this exemption. The shipper must furnish a copy of this exemption to the air carrier before or at the time the shipment is tendered.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:
 - o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, Parts 171-180.
 - o Registration required by § 107.601 et seq., when applicable.

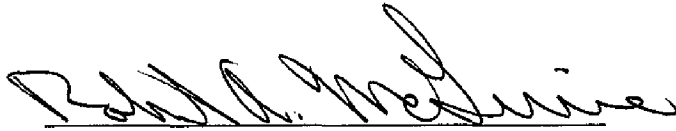
Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when this exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.)

In addition, the holder(s) of this exemption must also inform the AAHMS, in writing, as soon as practicable of any incidents involving the package and shipments made under this exemption.

Issued in Washington, D.C.



Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

NOV 17 2000

(DATE)

Address all inquiries to: Associate Administrator for Hazardous
Materials Safety, Research and Special Programs Administration,
Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31.

The original of this exemption is on file at the above office.
Photo reproductions and legible reductions of this exemption are
permitted. Any alteration of this exemption is prohibited.

Copies of exemptions may be obtained from the AAHMS, U.S.
Department of Transportation, 400 7th Street, S.W., Washington,
DC 20590-0001, Attention: Records Center, 202-366-5046.

PO: cwf